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1 [The design and development of ZPL](#)

Lawrence Snyder

June 2007 HOPL III: Proceedings of the third ACM SIGPLAN conference on History of programming languages

Publisher: ACM

Full text available: Mov (56:16 MIN), Pdf (2.65 MB) Additional Information: [full citation](#), [appendices and supplementary abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 230, Citation Count: 0

ZPL is an implicitly parallel programming language, which means all instructions to implement a manage the parallelism are inserted by the compiler. It is the first implicitly parallel language to achieve performance portability, that is, consistent ...

Keywords: CTA, WYSIWYG performance model, parallel language design, performance portability problem space promotion, regions, type architecture

2 [StorHouse metanoia - new applications for database, storage & data warehousing](#)

Felipe Cariño, Jr., Pekka Kostamaa, Art Kaufmann, John Burgess

May 2001 SIGMOD '01: Proceedings of the 2001 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available: Pdf (597.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 138, Citation Count: 2

This paper describes the StorHouse/Relational Manager (RM) database system that uses and exploits an *active storage hierarchy*. By active storage hierarchy, we mean that StorHouse/RM executes queries *directly* against data stored on all ...

3 [StorHouse metanoia - new applications for database, storage & data warehousing](#)

Felipe Cariño, Jr., Pekka Kostamaa, Art Kaufmann, John Burgess

June 2001 ACM SIGMOD Record. Volume 30 Issue 2

Publisher: ACM

Full text available: Pdf (597.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 138, Citation Count: 2


This paper describes the StorHouse/Relational Manager (RM) database system that uses and exploits an *active storage hierarchy*. By active storage hierarchy, we mean that StorHouse/RM executes queries *directly* against data stored on all ...

4 [Smart-aloah for multi-hop wireless networks](#)

Harkirat Singh, Suresh Singh

October 2005 Mobile Networks and Applications, Volume 10 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  Pdf (928.66 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 108, Citation Count: 1

This paper presents a novel slotted ALOHA-based protocol for use in ad hoc networks where nodes are equipped with adaptive array smart antennas. The protocol relies on the ability of the antenna and DoA (Direction of Arrival) algorithms to identify the ...

Keywords: MAC, ad hoc network, directional antenna, manet, wireless


5 [Maintenance of cube automatic summary tables](#)



Wolfgang Lehner, Richard Sidle, Hamid Pirahesh, Roberta Wolfgang Cochrane

May 2000 SIGMOD '00: Proceedings of the 2000 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available:  Pdf (25.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 58, Citation Count: 6

Materialized views (or Automatic Summary Tables—ASTs) are commonly used to improve the performance of aggregation queries by orders of magnitude. In contrast to regular tables, ASTs synchronized by the database system. In this paper, we present ...


6 [Maintenance of cube automatic summary tables](#)



Wolfgang Lehner, Richard Sidle, Hamid Pirahesh, Roberta Wolfgang Cochrane

June 2000 ACM SIGMOD Record, Volume 29 Issue 2

Publisher: ACM

Full text available:  Pdf (25.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 58, Citation Count: 6

Materialized views (or Automatic Summary Tables—ASTs) are commonly used to improve the performance of aggregation queries by orders of magnitude. In contrast to regular tables, ASTs synchronized by the database system. In this paper, we present ...

7 [Using types to analyze and optimize object-oriented programs](#)



Amer Diwan, Kathryn S. McKinley, J. Eliot B. Moss

January 2001 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 21 Issue 1

Publisher: ACM

Full text available:  Pdf (414.51 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 58, Citation Count: 10

Object-oriented programming languages provide many software engineering benefits, but these come at a performance cost. Object-oriented programs make extensive use of method invocation and pointer dereferences, both of which are potentially costly ...


Keywords: alias analysis, classes and objects, method invocation, object orientation, polymorphism, redundancy elimination

8 [Précis: from unstructured keywords as queries to structured databases as answers](#)

Alkis Simitsis, Georgia Koutrika, Yannis Ioannidis

January 2008 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 17 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (2.52 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 86, Citation Count: 1

Precis queries represent a novel way of accessing data, which combines ideas and techniques from the fields of databases and information retrieval. They are free-form, keyword-based, queries or of relational databases that generate entire multi-relation ...

Keywords: Free-form queries, Keyword search, Query processing


9 [Asynchronous in-network prediction: Efficient aggregation in sensor networks](#)



Pavan Edara, Ashwin Limaye, Krithi Ramamritham

August 2008 ACM Transactions on Sensor Networks (TOSN), Volume 4 Issue 4

Publisher: ACM

Full text available:  Pdf (1.50 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 63, Downloads (12 Months): 63, Citation Count: 0

Given a sensor network and aggregate queries over the values sensed by subsets of nodes in the network, how do we ensure that high quality results are served for the maximum possible time? The issues underlying this question relate to the fidelity ...

Keywords: Aggregation, coherency, energy efficient, prediction, query processing

10 [On the usefulness of type and liveness accuracy for garbage collection and leak detection](#)



Martin Hirzel, Amer Diwan, Johannes Henkel

November 2002 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 24 Issue 6

Publisher: ACM

Full text available:  Pdf (684.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 47, Citation Count: 8

The effectiveness of garbage collectors and leak detectors in identifying dead objects depends on accuracy of their reachability traversal. Accuracy has two orthogonal dimensions: (i) whether the reachability traversal can distinguish between ...

Keywords: Conservative garbage collection, leak detection, liveness accuracy, program analysis type accuracy

11 [Answering complex SQL queries using automatic summary tables](#)



Markos Zaharioudakis, Roberta Cochrane, George Lapis, Hamid Pirahesh, Monica Urata

June 2000 ACM SIGMOD Record, Volume 29 Issue 2

Publisher: ACM

Full text available:  Pdf (185.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 135, Citation Count: 45

We investigate the problem of using materialized views to answer SQL queries. We focus on multidimensional decision-support queries, which involve joins, arithmetic operations and other (possibly user-defined) functions, aggregation (often along multiple dimensions), ...

12 [Answering complex SQL queries using automatic summary tables](#)



Markos Zaharioudakis, Roberta Cochrane, George Lapis, Hamid Pirahesh, Monica Urata

May 2000 SIGMOD '00: Proceedings of the 2000 ACM SIGMOD international conference on Management of data

Publisher: ACM


Full text available:  Pdf (185.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 135, Citation Count: 45


We investigate the problem of using materialized views to answer SQL queries. We focus on model decision-support queries, which involve joins, arithmetic operations and other (possibly user-defined) functions, aggregation (often along multiple dimensions), ...

13 [A portable runtime interface for multi-level memory hierarchies](#)

 Mike Houston, Ji-Young Park, Manman Ren, Timothy Knight, Kayvon Fatahalian, Alex Aiken, William Dally, Pat Hanrahan

February 2008 PPOPP '08: Proceedings of the 13th ACM SIGPLAN Symposium on Principles and practice of parallel programming

Publisher: ACM

Full text available:  Pdf (378.60 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 229, Citation Count: 1

We present a platform independent runtime interface for moving data and computation through parallel machines with multi-level memory hierarchies. We show that this interface can be used as a compiler target and can be implemented easily and efficiently ...

Keywords: PMH, memory hierarchies, parallelism, runtime, sequoia

14 [Efficient processing of top-k dominating queries on multi-dimensional data](#)

Man Lung Yiu, Nikos Mamoulis

September 2007 VLDB '07: Proceedings of the 33rd international conference on Very large data bases
Publisher: VLDB Endowment

Full text available:  Pdf (300.11 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 70, Citation Count: 1

The top-k dominating query returns k data objects which dominate the highest number of objects in the dataset. This query is an important tool for decision support since it provides data analysts an intuitive way for finding significant objects. ...

15 [BrowserShield: vulnerability-driven filtering of dynamic HTML](#)

Charles Reis, John Dunagan, Helen J. Wang, Opher Dubrovsky, Saher Esmeir

November 2006 OSDI '06: Proceedings of the 7th symposium on Operating systems design and implementation

Publisher: USENIX Association


Full text available:  Pdf (411.90 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)


Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 57, Citation Count: 1

Vulnerability-driven filtering of network data can offer a fast and easy-to-deploy alternative or intermediary to software patching, as exemplified in Shield [43]. In this paper, we take Shield's to a new domain, inspecting and cleansing not just ...

16 [Optimization of html automatically generated by wysiwyg programs](#)

 Jacqueline Spiesser, Les Kitchen

May 2004 WWW '04: Proceedings of the 13th international conference on World Wide Web
Publisher: ACM

Full text available:  Pdf (129.59 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 67, Citation Count: 1

Automatically generated HTML, as produced by WYSIWYG programs, typically contains much repetitive and unnecessary markup. This paper identifies aspects of such HTML that may be altered while leaving a semantically equivalent document, and proposes techniques ...


Keywords: dynamic programming, haskell, html optimization, wysiwyg

17 Role-based refactoring of crosscutting concerns

 Jan Hannemann, Gail C. Murphy, Gregor Kiczales

March 2005 AOSD '05: Proceedings of the 4th international conference on Aspect-oriented software development

Publisher: ACM

Full text available:  Pdf (490.62 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 131, Citation Count: 8

Improving the structure of code can help developers work with a software system more efficient and more consistently. To aid developers in re-structuring the implementation of crosscutting concerns using aspect-oriented programming, we introduce a ...

Keywords: aspect-oriented programming, design patterns, refactoring

18 Communications of the ACM: Volume 51 Issue 8

 August 2008 issue Volume 51 Issue 8

Publisher: ACM

Full text available:  Digital Edition,  Pdf (6.85 MB)

Additional Information: [full citation](#)


Bibliometrics: Downloads (6 Weeks): 1079, Downloads (12 Months): 1812, Citation Count: 0

19 Mutatis Mutandis: Safe and predictable dynamic software updating

 Gareth Stoye, Michael Hicks, Gavin Bierman, Peter Sewell, Iulian Neamtiu

August 2007 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume Issue 4

Publisher: ACM

Full text available:  Pdf (1.43 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 134, Citation Count: 1

This article presents Proteus, a core calculus that models dynamic software updating, a service fixing bugs and adding features to a running program. Proteus permits a program's type structure change dynamically but guarantees the updated program ...

Keywords: Dynamic software updating, Proteus, capability, type inference, updateability analysis

20 Flow-insensitive type qualifiers

 Jeffrey S. Foster, Robert Johnson, John Kodumal, Alex Aiken

November 2006 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume Issue 6

Publisher: ACM

Full text available:  Pdf (910.93 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 61, Citation Count: 7

We describe flow-insensitive type qualifiers, a lightweight, practical mechanism for specifying and checking properties not captured by traditional type systems. We present a framework for adding new, user-specified type qualifiers to programming languages ...

Keywords: Type qualifiers, const, constraints, security, static analysis, taint, types

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